

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:ssptacrs1614

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	4	APR 07	STN is raising the limits on saved answers
NEWS	5	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	6	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	7	APR 28	CAS patent authority coverage expanded
NEWS	8	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	9	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS	10	MAY 08	STN Express, Version 8.4, now available
NEWS	11	MAY 11	STN on the Web enhanced
NEWS	12	MAY 11	BEILSTEIN substance information now available on STN Easy
NEWS	13	MAY 14	DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS	14	MAY 15	INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS	15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS	16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN customer agreement. This agreement limits use to scientific research. Use for software development or design, implementation of commercial gateways, or use of CAS and STN data in the building of commercial products is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:45:12 ON 10 JUN 2009

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:45:29 ON 10 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2
DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

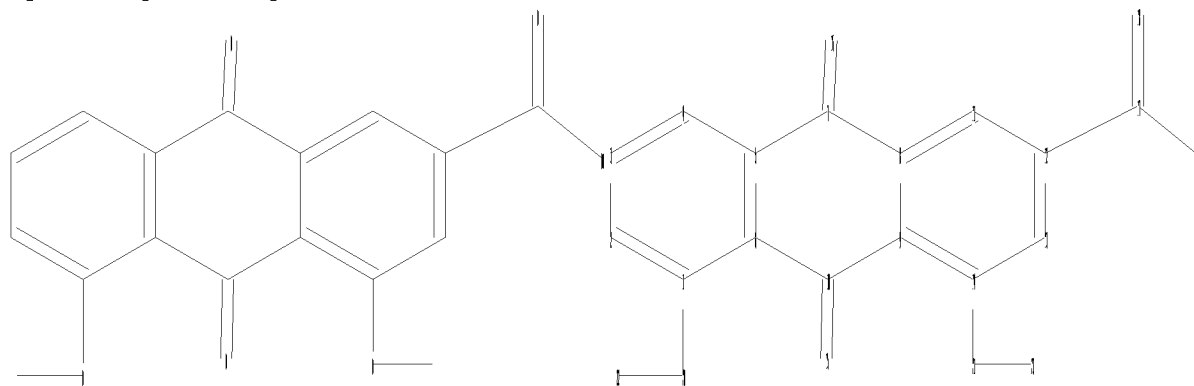
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10591157.str



chain nodes :

15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14

exact/norm bonds :

1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 20-22 21-23

exact bonds :

12-17

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-11 9-14 11-12 12-13 13-14 17-18 17-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sss ful

FULL SEARCH INITIATED 12:45:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2230 TO ITERATE

100.0% PROCESSED 2230 ITERATIONS

63 ANSWERS

SEARCH TIME: 00.00.01

L2 63 SEA SSS FUL L1

=> d l2 ibib abs 1-63

'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

EPROP - Table of experimental properties

PPROP - Table of predicted properties

PROP - EPROP, ETAG, PPROP and SPEC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels

IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):end

=> d 1 12 1-63

'L' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

EPROP - Table of experimental properties

PPROP - Table of predicted properties

PROP - EPROP, ETAG, PPROP and SPEC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels

IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

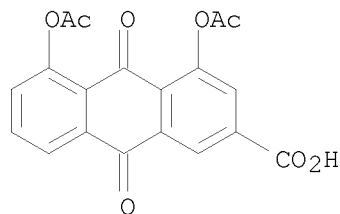
HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

=> d 12 1-63

L2 ANSWER 1 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1024003-23-3 REGISTRY
ED Entered STN: 30 May 2008
CN Hyaluronic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylate (ester) (CA INDEX NAME)
MF C19 H12 O8 . x Unspecified
PCT Manual registration, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 13739-02-1
CMF C19 H12 O8



CM 2

CRN 9004-61-9
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 942153-10-8 REGISTRY
ED Entered STN: 11 Jul 2007
CN Adenosine, 5'-[[(3S)-3-amino-3-carboxypropyl]methylsulfonio]-5'-deoxy-,

inner salt, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylate (1:1) (CA INDEX NAME)

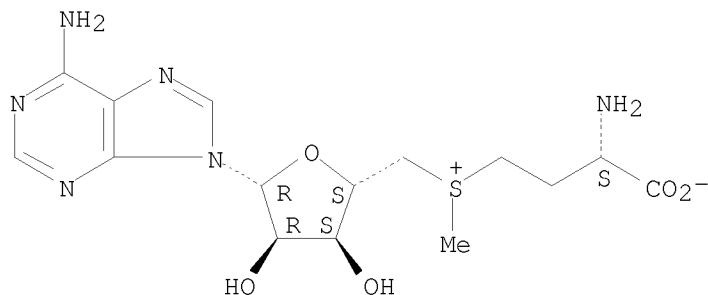
OTHER NAMES:

CN Diacerein-S-adenosylmethionine mixt.
FS STEREOSEARCH
MF C19 H12 O8 . C15 H22 N6 O5 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

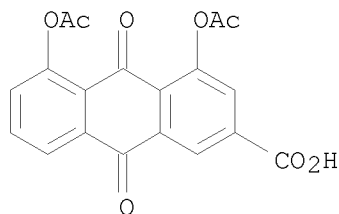
CRN 29908-03-0
CMF C15 H22 N6 O5 S

Absolute stereochemistry.



CM 2

CRN 13739-02-1
CMF C19 H12 O8



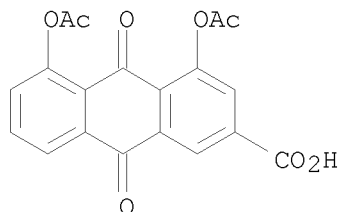
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 942120-35-6 REGISTRY
ED Entered STN: 11 Jul 2007
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
mixt. with N-(4-hydroxyphenyl)acetamide (CA INDEX NAME)
MF C19 H12 O8 . C8 H9 N O2
CI MXS
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 13739-02-1

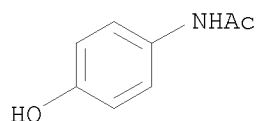
CMF C19 H12 O8



CM 2

CRN 103-90-2

CMF C8 H9 N O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

RN 873431-40-4 REGISTRY

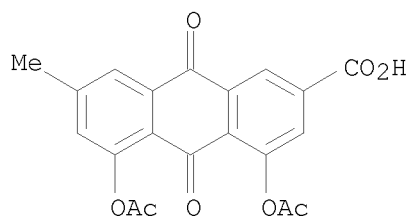
ED Entered STN: 03 Feb 2006

CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-7-methyl-9,10-dioxo- (CA INDEX NAME)

MF C20 H14 O8

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

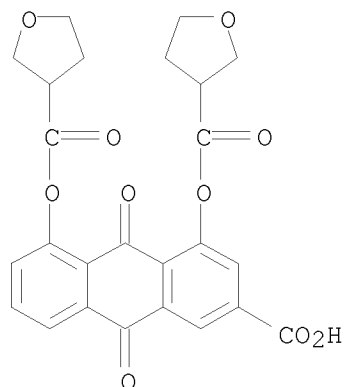
RN 864652-92-6 REGISTRY

ED Entered STN: 07 Oct 2005

CN 3-Furancarboxylic acid, tetrahydro-, 3-carboxy-9,10-dihydro-9,10-dioxo-1,8-anthracenediyl ester (9CI) (CA INDEX NAME)

MF C25 H20 O10

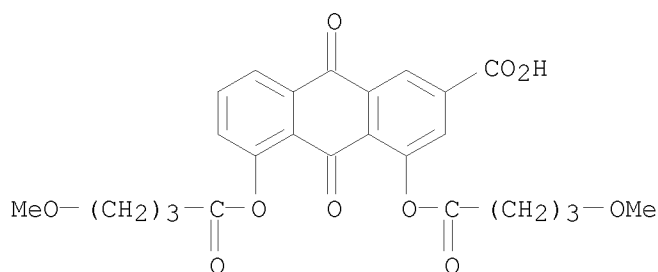
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 864652-91-5 REGISTRY
ED Entered STN: 07 Oct 2005
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-bis(4-methoxy-1-oxobutoxy)-
9,10-dioxo- (CA INDEX NAME)
MF C25 H24 O10
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

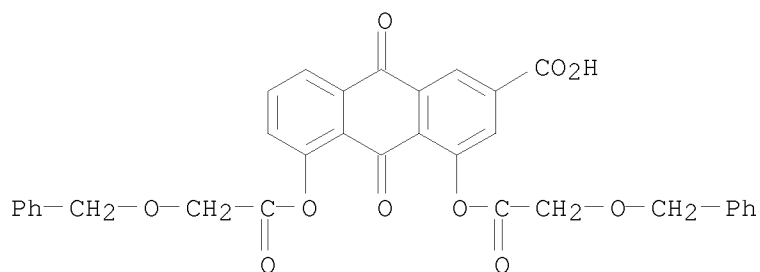


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 864652-90-4 REGISTRY
ED Entered STN: 07 Oct 2005
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[[2-(
(phenylmethoxy)acetyl]oxy]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-
bis[[2-(phenylmethoxy)acetyl]oxy]- (9CI)

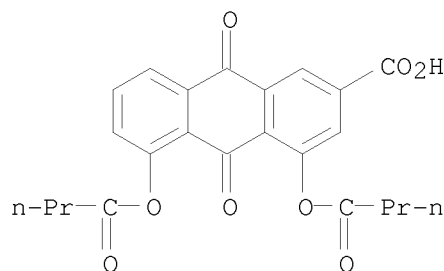
MF C33 H24 O10
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

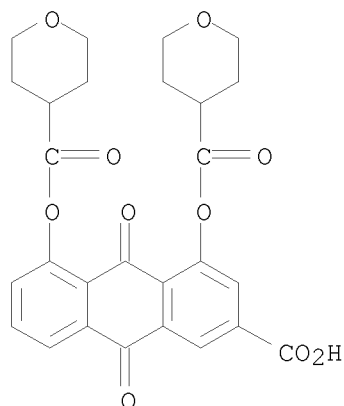
L2 ANSWER 8 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 864652-89-1 REGISTRY
 ED Entered STN: 07 Oct 2005
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis(1-oxobutoxy)-
 (CA INDEX NAME)
 MF C23 H20 O8
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

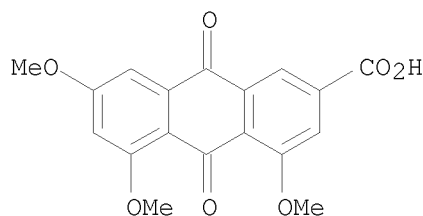
L2 ANSWER 9 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 864652-88-0 REGISTRY
 ED Entered STN: 07 Oct 2005
 CN 2H-Pyran-4-carboxylic acid, tetrahydro-,
 3-carboxy-9,10-dihydro-9,10-dioxo-1,8-anthracenediyl ester (CA INDEX
 NAME)
 MF C27 H24 O10
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

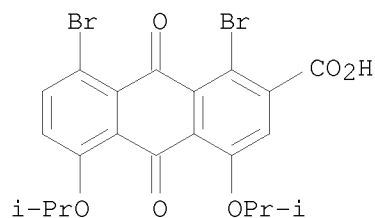
L2 ANSWER 10 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 861790-34-3 REGISTRY
ED Entered STN: 25 Aug 2005
CN 2-Anthraquinonecarboxylic acid, 4,5,7-trimethoxy-, potassium salt (2CI)
(CA INDEX NAME)
MF C18 H14 O7 . K
SR CAS EARLY REGISTRATIONS
LC STN Files: CA, CAPLUS, TOXCENTER
CRN (202974-82-1)



● K

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

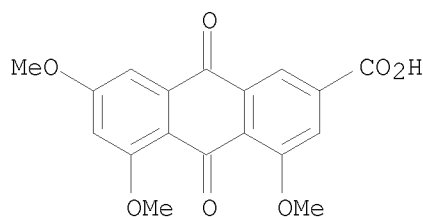
L2 ANSWER 11 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 355022-25-2 REGISTRY
ED Entered STN: 06 Sep 2001
CN 2-Anthracenecarboxylic acid, 1,8-dibromo-9,10-dihydro-4,5-bis(1-methylethoxy)-9,10-dioxo- (CA INDEX NAME)
OTHER NAMES:
CN 1,8-Dibromo-9,10-dihydro-4,5-bis(1-methylethoxy)-9,10-dioxo-2-anthracenecarboxylic acid
MF C21 H18 Br2 O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

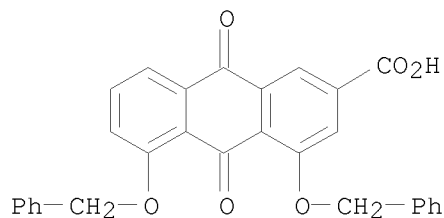
L2 ANSWER 12 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 202974-82-1 REGISTRY
ED Entered STN: 22 Mar 1998
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,7-trimethoxy-9,10-dioxo-
(CA INDEX NAME)
MF C18 H14 O7
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

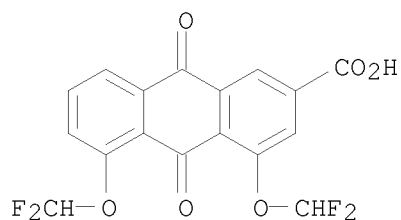
L2 ANSWER 13 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 190514-64-8 REGISTRY
ED Entered STN: 27 Jun 1997
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-
bis(phenylmethoxy)- (CA INDEX NAME)
MF C29 H20 O6
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

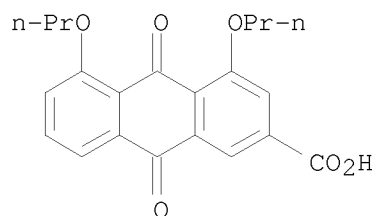
L2 ANSWER 14 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 176106-20-0 REGISTRY
ED Entered STN: 09 May 1996
CN 2-Anthracenecarboxylic acid, 4,5-bis(difluoromethoxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
MF C17 H8 F4 O6
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

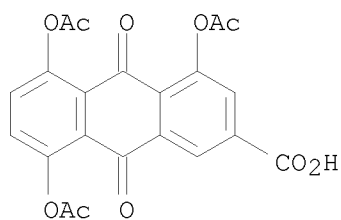
L2 ANSWER 15 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 164228-42-6 REGISTRY
ED Entered STN: 29 Jun 1995
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-dipropoxy- (CA INDEX NAME)
MF C21 H20 O6
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

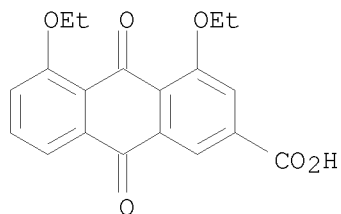
L2 ANSWER 16 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 162975-59-9 REGISTRY
ED Entered STN: 12 May 1995
CN 2-Anthracenecarboxylic acid, 4,5,8-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-
(CA INDEX NAME)
MF C21 H14 O10
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 161802-06-8 REGISTRY
ED Entered STN: 30 Mar 1995
CN 2-Anthracenecarboxylic acid, 4,5-diethoxy-9,10-dihydro-9,10-dioxo- (CA
INDEX NAME)
MF C19 H16 O6
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

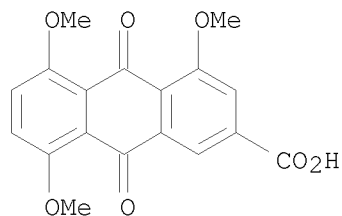


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 161802-05-7 REGISTRY
ED Entered STN: 30 Mar 1995

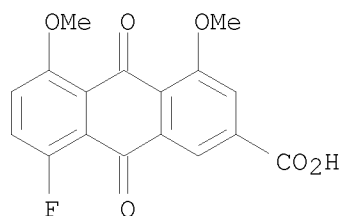
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-trimethoxy-9,10-dioxo-
 (CA INDEX NAME)
 MF C18 H14 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

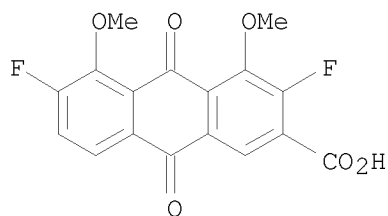
L2 ANSWER 19 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 158095-46-6 REGISTRY
 ED Entered STN: 05 Oct 1994
 CN 2-Anthracenecarboxylic acid, 8-fluoro-9,10-dihydro-4,5-dimethoxy-9,10-
 dioxo- (CA INDEX NAME)
 MF C17 H11 F O6
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

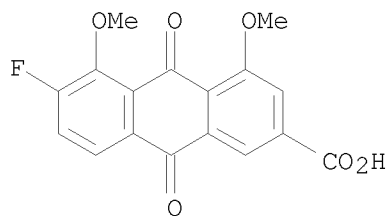
L2 ANSWER 20 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 154658-99-8 REGISTRY
 ED Entered STN: 29 Apr 1994
 CN 2-Anthracenecarboxylic acid, 3,6-difluoro-9,10-dihydro-4,5-dimethoxy-9,10-
 dioxo- (CA INDEX NAME)
 MF C17 H10 F2 O6
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

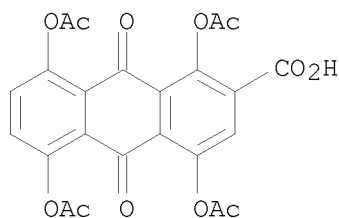
L2 ANSWER 21 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-98-7 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 6-fluoro-9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)
MF C17 H11 F O6
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

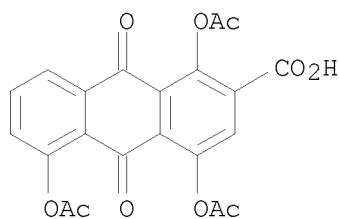
L2 ANSWER 22 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-45-4 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 1,4,5,8-tetrakis(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
OTHER NAMES:
CN 1,4,5,8-Tetraacetoxyanthraquinone-2-carboxylic acid
MF C23 H16 O12
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

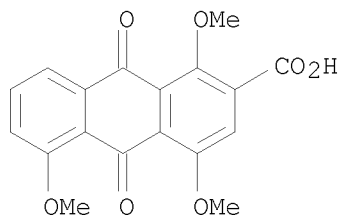
L2 ANSWER 23 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-44-3 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 1,4,5-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-
(CA INDEX NAME)
OTHER NAMES:
CN 1,4,5-Triacetoxyanthraquinone-2-carboxylic acid
MF C21 H14 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

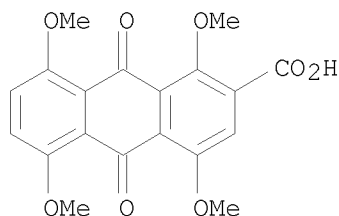
L2 ANSWER 24 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-39-6 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1,4,5-trimethoxy-9,10-dioxo-
(CA INDEX NAME)
OTHER NAMES:
CN 1,4,5-Trimethoxyanthraquinone-2-carboxylic acid
MF C18 H14 O7
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

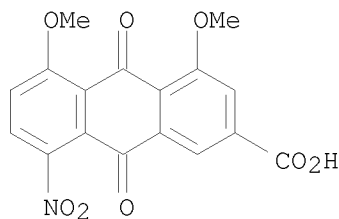
L2 ANSWER 25 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-38-5 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1,4,5,8-tetramethoxy-9,10-dioxo-
(CA INDEX NAME)
MF C19 H16 O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

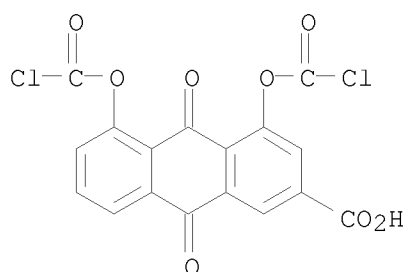
L2 ANSWER 26 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 154658-36-3 REGISTRY
ED Entered STN: 29 Apr 1994
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-8-nitro-9,10-dioxo-
(CA INDEX NAME)
MF C17 H11 N O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

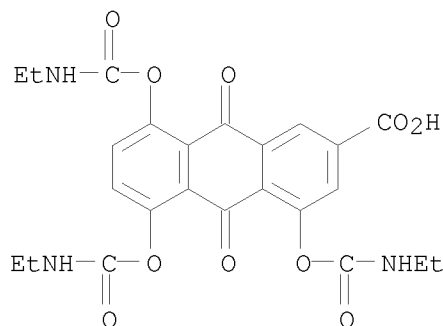
L2 ANSWER 27 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-68-9 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 4,5-bis[(chlorocarbonyl)oxy]-9,10-dihydro-
9,10-dioxo- (CA INDEX NAME)
MF C17 H6 Cl2 O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

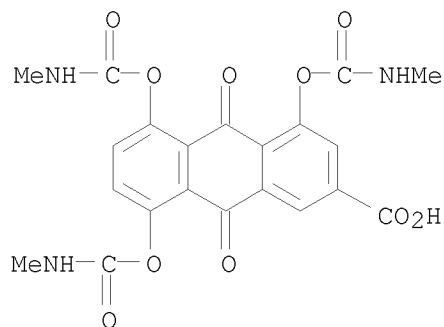
L2 ANSWER 28 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-29-2 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 4,5,8-tris[[(ethylamino)carbonyl]oxy]-9,10-
dihydro-9,10-dioxo- (CA INDEX NAME)
MF C24 H23 N3 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

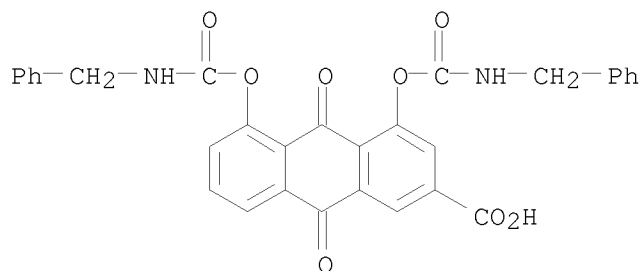
L2 ANSWER 29 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-28-1 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-
tris[[(methylamino)carbonyl]oxy]-9,10-dioxo- (CA INDEX NAME)
MF C21 H17 N3 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-27-0 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-
bis[[[(phenylmethyl)amino]carbonyl]oxy]- (CA INDEX NAME)
MF C31 H22 N2 O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

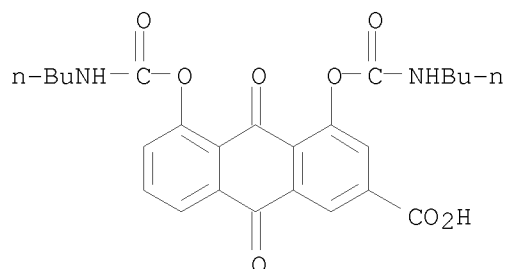


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

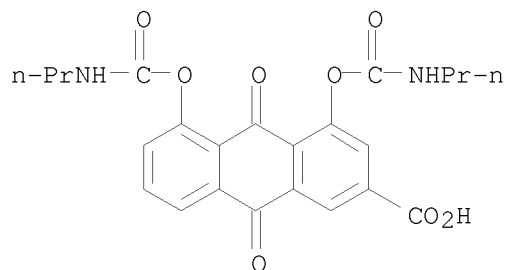
RN 143700-26-9 REGISTRY
 ED Entered STN: 30 Sep 1992
 CN 2-Anthracenecarboxylic acid, 4,5-bis[[(butylamino)carbonyl]oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
 MF C25 H26 N2 O8
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 143700-25-8 REGISTRY
 ED Entered STN: 30 Sep 1992
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[[(propylamino)carbonyl]oxy]- (CA INDEX NAME)
 MF C23 H22 N2 O8
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

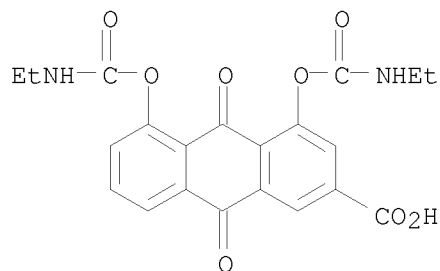


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 143700-24-7 REGISTRY
 ED Entered STN: 30 Sep 1992
 CN 2-Anthracenecarboxylic acid, 4,5-bis[[(ethylamino)carbonyl]oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
 MF C21 H18 N2 O8
 SR CA

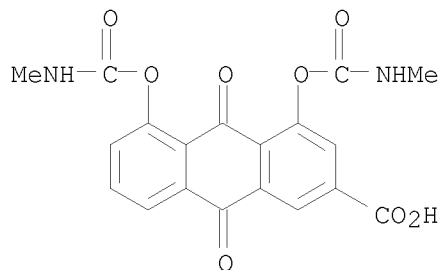
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

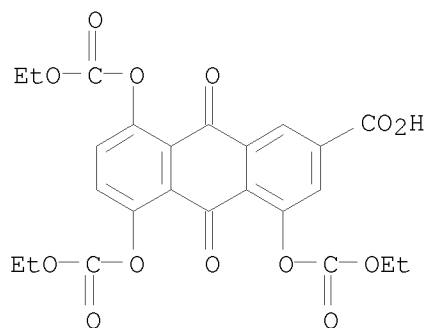
L2 ANSWER 34 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-23-6 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-
bis[(methylethylamino)carbonyloxy]-9,10-dioxo- (CA INDEX NAME)
MF C19 H14 N2 O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

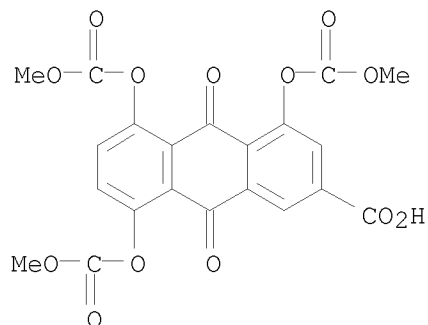
L2 ANSWER 35 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-22-5 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 4,5,8-tris[(ethoxycarbonyl)oxy]-9,10-dihydro-
9,10-dioxo- (CA INDEX NAME)
MF C24 H20 O13
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

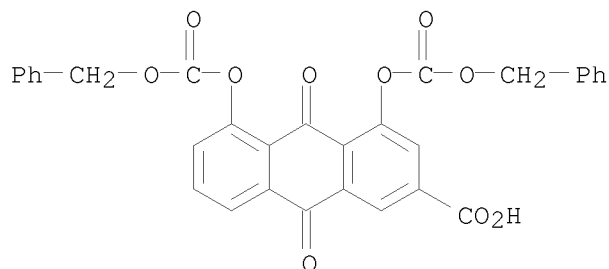
L2 ANSWER 36 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-21-4 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5,8-tris[(methoxycarbonyl)oxy]-
9,10-dioxo- (CA INDEX NAME)
MF C21 H14 O13
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

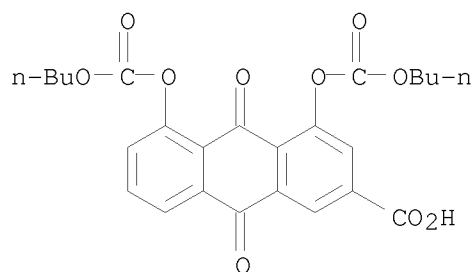
L2 ANSWER 37 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-20-3 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-
bis[[phenylmethoxy]carbonyl]oxy]- (CA INDEX NAME)
MF C31 H20 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

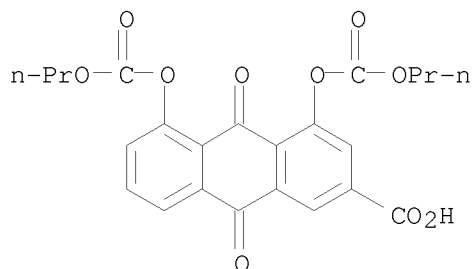
L2 ANSWER 38 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-19-0 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 4,5-bis[(butoxycarbonyl)oxy]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
MF C25 H24 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

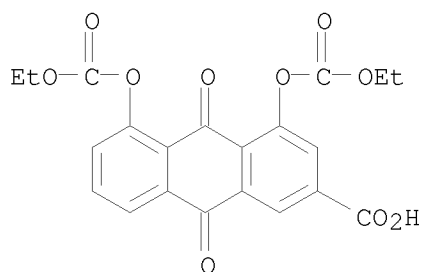
L2 ANSWER 39 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-18-9 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis[(propoxycarbonyl)oxy]- (CA INDEX NAME)
MF C23 H20 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

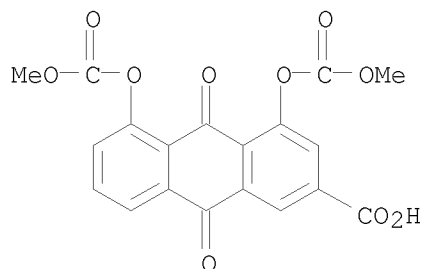
L2 ANSWER 40 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-17-8 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 4,5-bis[(ethoxycarbonyl)oxy]-9,10-dihydro-
9,10-dioxo- (CA INDEX NAME)
MF C21 H16 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

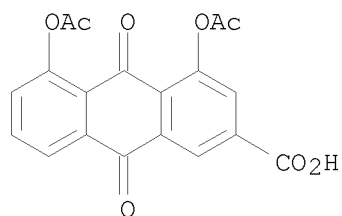
L2 ANSWER 41 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 143700-16-7 REGISTRY
ED Entered STN: 30 Sep 1992
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-bis[(methoxycarbonyl)oxy]-
9,10-dioxo- (CA INDEX NAME)
MF C19 H12 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

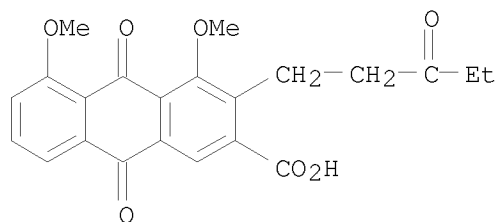
L2 ANSWER 42 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 131817-00-0 REGISTRY
ED Entered STN: 01 Feb 1991
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
magnesium salt (2:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
magnesium salt (9CI)
MF C19 H12 O8 . 1/2 Mg
SR CA
LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL
CRN (13739-02-1)



● 1/2 Mg

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

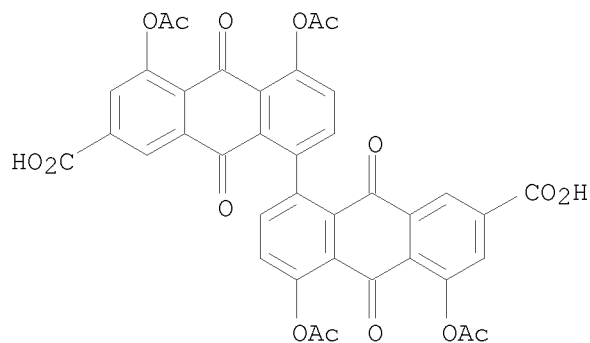
L2 ANSWER 43 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 123077-92-9 REGISTRY
ED Entered STN: 06 Oct 1989
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-9,10-dioxo-3-(3-
oxopentyl)- (CA INDEX NAME)
MF C22 H20 O7
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

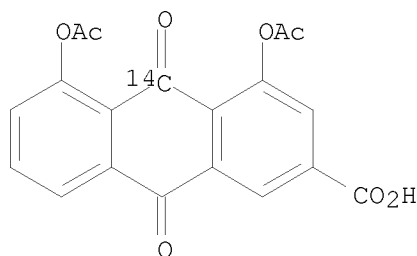
L2 ANSWER 44 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 116378-67-7 REGISTRY
ED Entered STN: 17 Sep 1988
CN [1,1'-Bianthracene]-7,7'-dicarboxylic acid,
4,4',5,5'-tetraakis(acetyloxy)-9,9',10,10'-tetrahydro-9,9',10,10'-tetraoxo-
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Bianthraquinone]-7,7'-dicarboxylic acid, 4,4',5,5'-tetrahydroxy-,
tetraacetate (6CI)
MF C38 H22 O16
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

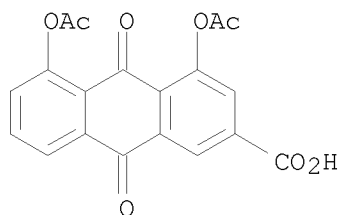
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 45 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 115436-68-5 REGISTRY
ED Entered STN: 23 Jul 1988
CN 2-Anthracene-10-14C-carboxylic acid,
4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)
MF C19 H12 O8
SR CA
LC STN Files: CA, CAPLUS, CASREACT, IMSPATENTS, IMSRESEARCH



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

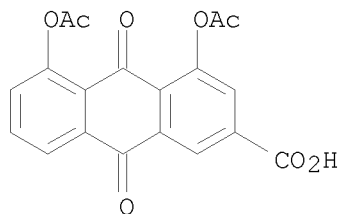
L2 ANSWER 46 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 112118-19-1 REGISTRY
ED Entered STN: 01 Jan 1988
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
calcium salt (2:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
calcium salt (9CI)
OTHER NAMES:
CN Di-O-acetylrhein calcium salt
MF C19 H12 O8 . 1/2 Ca
SR CA
LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL
CRN (13739-02-1)



● 1/2 Ca

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

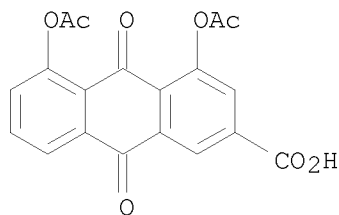
L2 ANSWER 47 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 112118-18-0 REGISTRY
ED Entered STN: 01 Jan 1988
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
potassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Di-O-acetylrhein potassium salt
MF C19 H12 O8 . K
SR CA
LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL
CRN (13739-02-1)



● K

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

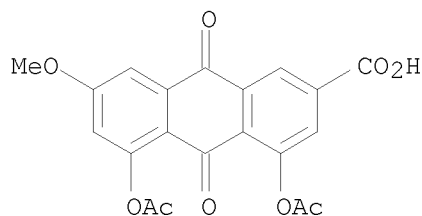
L2 ANSWER 48 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 112118-17-9 REGISTRY
ED Entered STN: 01 Jan 1988
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-,
sodium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Di-O-acetylrhein sodium salt
MF C19 H12 O8 . Na
SR CA
LC STN Files: CA, CAPLUS, IMSPATENTS, IMSRESEARCH, TOXCENTER, USPATFULL
CRN (13739-02-1)



● Na

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

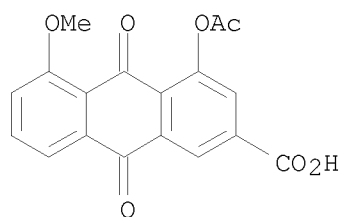
L2 ANSWER 49 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 102555-69-1 REGISTRY
ED Entered STN: 07 Jun 1986
CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-7-methoxy-
9,10-dioxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthraquinonecarboxylic acid, 4,5-dihydroxy-7-methoxy-, diacetate (6CI)
MF C20 H14 O9
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

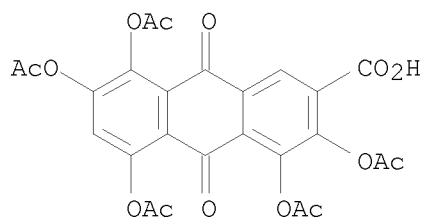
L2 ANSWER 50 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 101875-41-6 REGISTRY
ED Entered STN: 04 May 1986
CN 2-Anthracenecarboxylic acid, 4-(acetyloxy)-9,10-dihydro-5-methoxy-9,10-dioxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthraquinonecarboxylic acid, 4-hydroxy-5-methoxy-, acetate (6CI)
MF C18 H12 O7
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

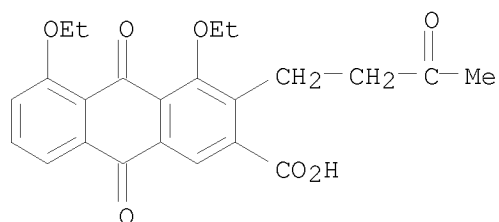
L2 ANSWER 51 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 96578-47-1 REGISTRY
ED Entered STN: 03 Jun 1985
CN 2-Anthracenecarboxylic acid, 3,4,5,7,8-pentakis(acetyloxy)-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthroic acid, 9,10-dihydro-3,4,5,7,8-pentahydroxy-9,10-dioxo-, pentaacetate (7CI)
MF C25 H18 O14
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

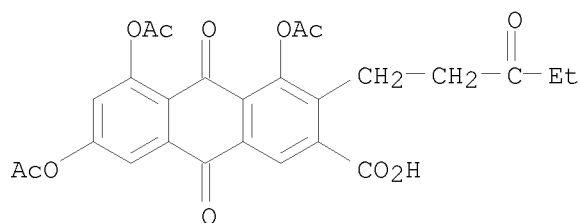
L2 ANSWER 52 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 95455-49-5 REGISTRY
ED Entered STN: 23 Mar 1985
CN 2-Anthracenecarboxylic acid, 4,5-diethoxy-9,10-dihydro-9,10-dioxo-3-(3-oxobutyl)- (CA INDEX NAME)
MF C23 H22 O7
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

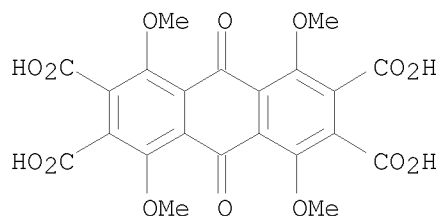
L2 ANSWER 53 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 92838-38-5 REGISTRY
ED Entered STN: 17 Dec 1984
CN 2-Anthracenecarboxylic acid, 4,5,7-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-3-(3-oxopentyl)- (CA INDEX NAME)
MF C26 H22 O11
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

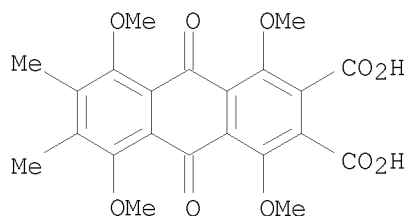
L2 ANSWER 54 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 87998-39-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,3,6,7-Anthracenetetracarboxylic acid,
9,10-dihydro-1,4,5,8-tetramethoxy-9,10-dioxo- (CA INDEX NAME)
MF C22 H16 O14
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 55 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 87998-38-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,3-Anthracenedicarboxylic acid, 9,10-dihydro-1,4,5,8-tetramethoxy-6,7-
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LC STN Files: CA, CAPLUS

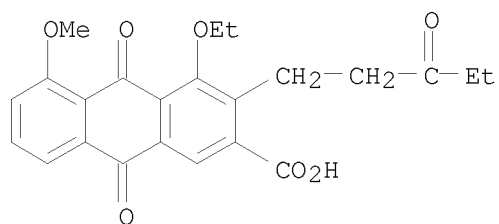


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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 56 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 82247-62-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 4-ethoxy-9,10-dihydro-5-methoxy-9,10-dioxo-3-
(3-oxopentyl)- (CA INDEX NAME)

MF C23 H22 O7
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)



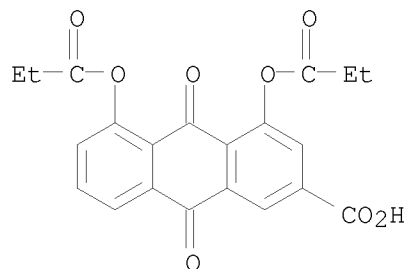
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 57 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 81686-02-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-9,10-dioxo-4,5-bis(1-oxopropoxy)-
 (CA INDEX NAME)

OTHER NAMES:

CN 1,8-Dipropionyloxy-3-carboxyanthraquinone
 CN 4,5-Dipropionylrhein
 MF C21 H16 O8
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



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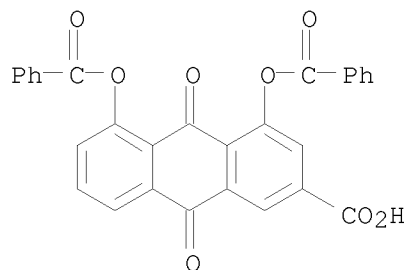
5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 58 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 81686-01-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Anthracenecarboxylic acid, 4,5-bis(benzoyloxy)-9,10-dihydro-9,10-dioxo-
 (CA INDEX NAME)

OTHER NAMES:

CN 1,8-Dibenzoyloxy-3-carboxyanthraquinone
 CN 4,5-Dibenzoylrhein
 CN Dibenzoylrhein
 MF C29 H16 O8

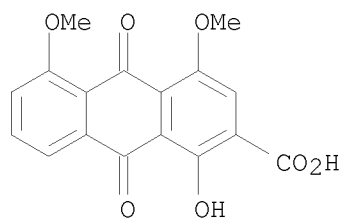
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER
(*File contains numerically searchable property data)



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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

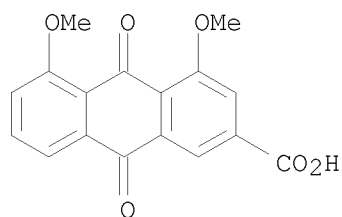
L2 ANSWER 59 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 72049-26-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-1-hydroxy-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)
MF C17 H12 O7
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

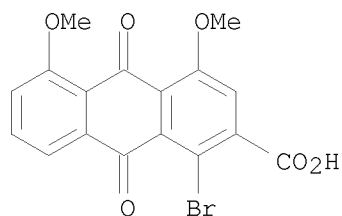
L2 ANSWER 60 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 72049-24-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4,5-dimethoxy-9,10-dioxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Anthraquinonecarboxylic acid, 4,5-dimethoxy- (6CI)
OTHER NAMES:
CN 4,5-Dimethoxyanthraquinone-2-carboxylic acid
MF C17 H12 O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



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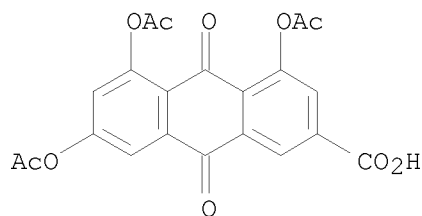
L2 ANSWER 61 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 72049-23-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 1-bromo-9,10-dihydro-4,5-dimethoxy-9,10-dioxo-
(CA INDEX NAME)
MF C17 H11 Br O6
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 62 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN
RN 61350-19-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 4,5,7-tris(acetyloxy)-9,10-dihydro-9,10-dioxo-
(CA INDEX NAME)
OTHER NAMES:
CN Emodic acid triacetate
MF C21 H14 O10
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 63 OF 63 REGISTRY COPYRIGHT 2009 ACS on STN

RN 13739-02-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2-Anthracenecarboxylic acid, 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Anthroic acid, 9,10-dihydro-4,5-dihydroxy-9,10-dioxo-, diacetate (8CI)

CN Rhein, diacetate (6CI)

OTHER NAMES:

CN 1,8-Diacetoxy-3-carboxyanthraquinone

CN 4,5-Diacetoxyanthraquinone-2-carboxylic acid

CN 4,5-Diacetylrhein

CN Artrodar

CN DAR

CN Diacerein

CN Diacerhein

CN Diacetylrhein

CN Fisiodar

CN SF 277

MF C19 H12 O8

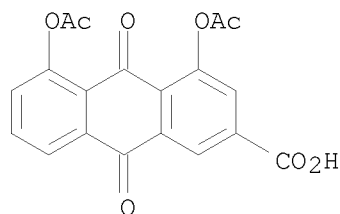
CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS,
BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU,
DRUGU, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSPRODUCT, IMSRESEARCH, IPA,
MEDLINE, MRCK*, NAPRALERT, PHAR, PROMT, PROUSDDR, PS, RTECS*, SYNTHLINE,
TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

193 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
196 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	333.27	333.49

FILE 'CAPLUS' ENTERED AT 13:08:53 ON 10 JUN 2009
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FILE COVERS 1907 - 10 Jun 2009 VOL 150 ISS 24
FILE LAST UPDATED: 9 Jun 2009 (20090609/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 143700-18-9

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L4 1 L3

=> d 14

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1992:591514 CAPLUS
DN 117:191514

OREF 117:33063a,33066a

TI Preparation of 4,5-dihydroxy- and 4,5,8-trihydroxy-9,10-dihydro-9,10-dioxo-2-anthracenecarboxylic acid dicarbonates and urethanes having therapeutic (antiarthritic) activities

IN Rosini, Sergio; Mian, Maurizio

PA Istituto Gentili S.p.A., Italy

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9210464	A1	19920625	WO 1991-EP2290	19911203
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, SD, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	CA 2098112	A1	19920611	CA 1991-2098112	19911203
	AU 9190157	A	19920708	AU 1991-90157	19911203
	AU 657290	B2	19950309		
	EP 561846	A1	19930929	EP 1991-920850	19911203
	EP 561846	B1	19950322		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
	JP 06503078	T	19940407	JP 1992-500339	19911203
	AT 120180	T	19950415	AT 1991-920850	19911203
	ES 2069915	T3	19950516	ES 1991-920850	19911203
	US 5362750	A	19941108	US 1993-70382	19930607
PRAI	IT 1990-22343	A	19901211		
	WO 1991-EP2290	A	19911203		

OS MARPAT 117:191514

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

13.49

347.96

STN INTERNATIONAL LOGOFF AT 13:21:05 ON 10 JUN 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:ssptacrs1614

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1

Web Page for STN Seminar Schedule - N. America

NEWS 2 DEC 01 ChemPort single article sales feature unavailable
 NEWS 3 APR 03 CAS coverage of exemplified prophetic substances enhanced
 NEWS 4 APR 07 STN is raising the limits on saved answers
 NEWS 5 APR 24 CA/CAPplus now has more comprehensive patent assignee information
 NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
 NEWS 7 APR 28 CAS patent authority coverage expanded
 NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS 9 APR 28 Limits doubled for structure searching in CAS REGISTRY
 NEWS 10 MAY 08 STN Express, Version 8.4, now available
 NEWS 11 MAY 11 STN on the Web enhanced
 NEWS 12 MAY 11 BEILSTEIN substance information now available on STN Easy
 NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
 NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
 NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in records back to 1992
 NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
 AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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FILE 'HOME' ENTERED AT 13:29:58 ON 10 JUN 2009

=> file registr

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

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STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2
 DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

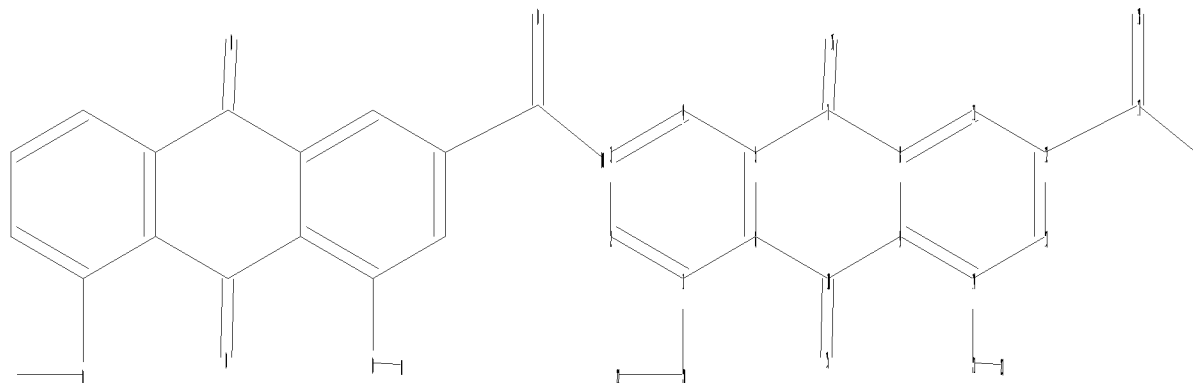
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\STNEXP\Queries\10591157a.str



chain nodes :

15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14

exact/norm bonds :

1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 20-22

exact bonds :

12-17 21-23

normalized bonds :

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Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sss ful

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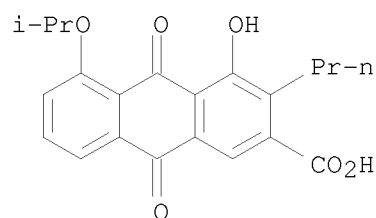
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11 ANSWERS

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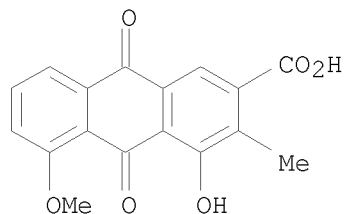
L2 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1099520-12-3 REGISTRY
ED Entered STN: 02 Feb 2009
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9,10-dioxo-3-propyl- (CA INDEX NAME)
MF C21 H20 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1099520-01-0 REGISTRY
ED Entered STN: 02 Feb 2009
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-3-methyl-
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SR CA
LC STN Files: CA, CAPLUS, USPATFULL

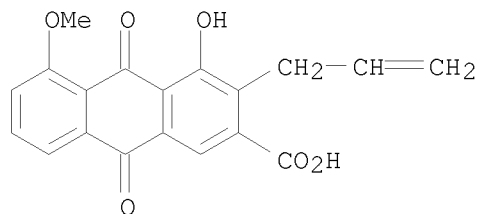


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RN 1099520-00-9 REGISTRY
ED Entered STN: 02 Feb 2009

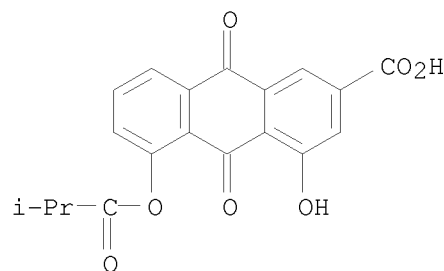
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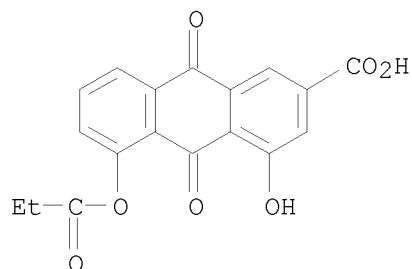
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 1028299-59-3 REGISTRY
 ED Entered STN: 15 Jun 2008
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-(2-methyl-1-oxopropoxy)-9,10-dioxo- (CA INDEX NAME)
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 SR Other Sources
 Database: ChemSpider (ChemZoo, Inc.)



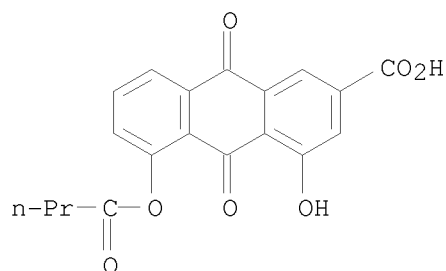
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L2 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 1027249-37-1 REGISTRY
 ED Entered STN: 11 Jun 2008
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-9,10-dioxo-5-(1-oxopropoxy)- (CA INDEX NAME)
 MF C18 H12 O7
 SR Other Sources
 Database: ChemSpider (ChemZoo, Inc.)



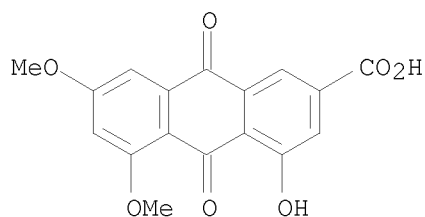
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 1025906-47-1 REGISTRY
 ED Entered STN: 06 Jun 2008
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-9,10-dioxo-5-(1-oxobutoxy)- (CA INDEX NAME)
 MF C19 H14 O7
 SR Other Sources
 Database: ChemSpider (ChemZoo, Inc.)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

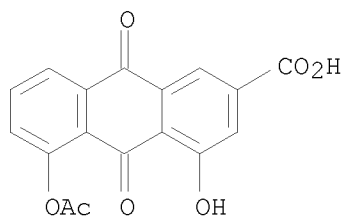
L2 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 883125-77-7 REGISTRY
 ED Entered STN: 05 May 2006
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5,7-dimethoxy-9,10-dioxo- (CA INDEX NAME)
 MF C17 H12 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

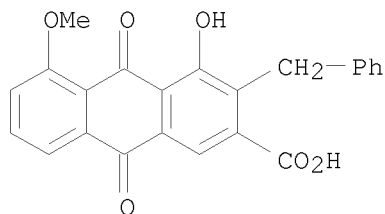
L2 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
RN 875535-35-6 REGISTRY
ED Entered STN: 01 Mar 2006
CN 2-Anthracenecarboxylic acid, 5-(acetyloxy)-9,10-dihydro-4-hydroxy-9,10-dioxo- (CA INDEX NAME)
MF C17 H10 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
RN 202974-90-1 REGISTRY
ED Entered STN: 22 Mar 1998
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo-3-(phenylmethyl)- (CA INDEX NAME)
MF C23 H16 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

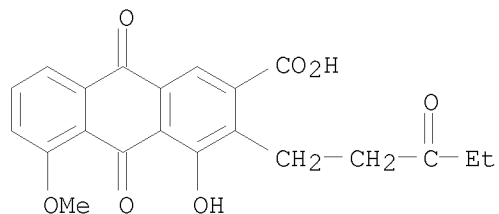


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
RN 88365-13-3 REGISTRY
ED Entered STN: 16 Nov 1984

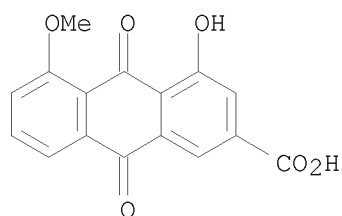
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo-3-(3-oxopentyl)- (CA INDEX NAME)
 MF C21 H18 O7
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 3300-26-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Anthraquinonecarboxylic acid, 4-hydroxy-5-methoxy- (6CI)
 CN 2-Anthroic acid, 9,10-dihydro-4-hydroxy-5-methoxy-9,10-dioxo- (7CI, 8CI)
 OTHER NAMES:
 CN Rhein, 8-O-methyl-
 MF C16 H10 O6
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
209.39	209.61

FILE 'CAPLUS' ENTERED AT 13:31:50 ON 10 JUN 2009
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FILE COVERS 1907 - 10 Jun 2009 VOL 150 ISS 24
FILE LAST UPDATED: 9 Jun 2009 (20090609/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAlus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 1028299-59-3
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L4 0 L3

=> s 1028299-59-3/rn
 0 1028299-59-3
 0 1028299-59-3D
L5 0 1028299-59-3/RN
 (1028299-59-3 (NOTL) 1028299-59-3D)

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	11.22	221.81

FILE 'REGISTRY' ENTERED AT 13:37:33 ON 10 JUN 2009
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STRUCTURE FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2
DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

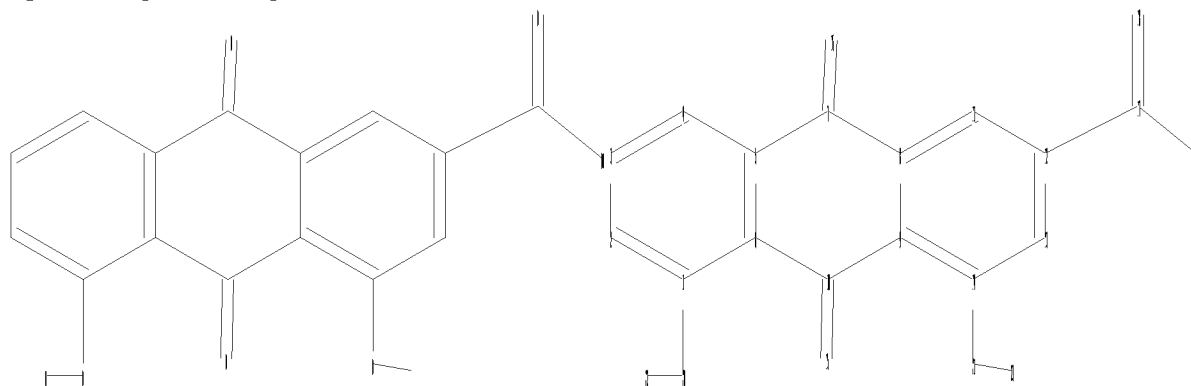
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10591157b.str



chain nodes :
15 16 17 18 19 20 21 22 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
1-20 7-16 10-15 12-17 14-21 17-18 17-19 20-22 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14
exact/norm bonds :
1-20 5-7 6-10 7-8 7-16 9-10 10-15 14-21 21-23
exact bonds :
12-17 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-11 9-14 11-12 12-13 13-14 17-18 17-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L6 STRUCTURE UPLOADED

=> s 16 sss ful

FULL SEARCH INITIATED 13:37:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2230 TO ITERATE

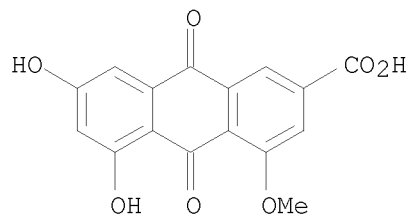
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3 ANSWERS

L7 3 SEA SSS FUL L6

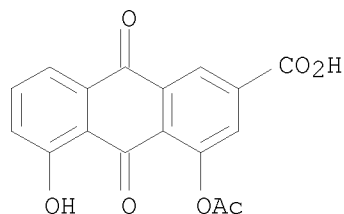
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L7 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 913690-86-5 REGISTRY
ED Entered STN: 21 Nov 2006
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-5,7-dihydroxy-4-methoxy-9,10-dioxo- (CA INDEX NAME)
MF C16 H10 O7
SR Other Sources
Database: ChemBank (The Broad Institute)
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 875535-36-7 REGISTRY
ED Entered STN: 01 Mar 2006
CN 2-Anthracenecarboxylic acid, 4-(acetyloxy)-9,10-dihydro-5-hydroxy-9,10-dioxo- (CA INDEX NAME)
MF C17 H10 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

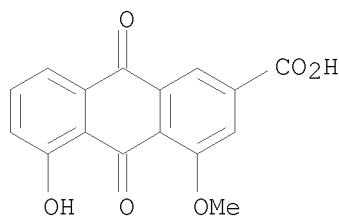


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN

RN 13241-29-7 REGISTRY
 ED Entered STN: 16 Nov 1984
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 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Anthroic acid, 9,10-dihydro-5-hydroxy-4-methoxy-9,10-dioxo- (7CI, 8CI)
 MF C16 H10 O6
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	192.51	414.32

FILE 'REGISTRY' ENTERED AT 13:38:36 ON 10 JUN 2009
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 DICTIONARY FILE UPDATES: 8 JUN 2009 HIGHEST RN 1154048-98-2

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1028299-59-3/RN

L8 1 1028299-59-3/RN

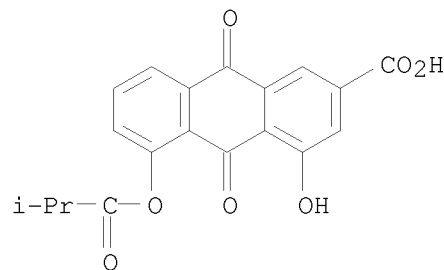
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L8 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1028299-59-3 REGISTRY
CN 2-Anthracenecarboxylic acid, 9,10-dihydro-4-hydroxy-5-(2-methyl-1-oxopropoxy)-9,10-dioxo- (CA INDEX NAME)
MF C19 H14 O7
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> file chemspider
'CHEMSPIDER' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=>

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Welcome to STN International! Enter x:X

LOGINID:ssptacrs1614

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01 ChemPort single article sales feature unavailable
NEWS 3 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 4 APR 07 STN is raising the limits on saved answers
NEWS 5 APR 24 CA/CAPplus now has more comprehensive patent assignee
information
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information
NEWS 7 APR 28 CAS patent authority coverage expanded
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 9 APR 28 Limits doubled for structure searching in CAS
REGISTRY
NEWS 10 MAY 08 STN Express, Version 8.4, now available
NEWS 11 MAY 11 STN on the Web enhanced
NEWS 12 MAY 11 BEILSTEIN substance information now available on
STN Easy
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
limits for exact sequence match searches and
introduction of free HIT display format
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:40:23 ON 15 JUN 2009

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.88	0.88

FILE 'REGISTRY' ENTERED AT 11:42:27 ON 15 JUN 2009
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STRUCTURE FILE UPDATES: 14 JUN 2009 HIGHEST RN 1157585-76-6
DICTIONARY FILE UPDATES: 14 JUN 2009 HIGHEST RN 1157585-76-6

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	1.36

FILE 'CAPLUS' ENTERED AT 11:42:39 ON 15 JUN 2009
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FILE COVERS 1907 - 15 Jun 2009 VOL 150 ISS 25
FILE LAST UPDATED: 14 Jun 2009 (20090614/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 864652-88-0

REGISTRY INITIATED

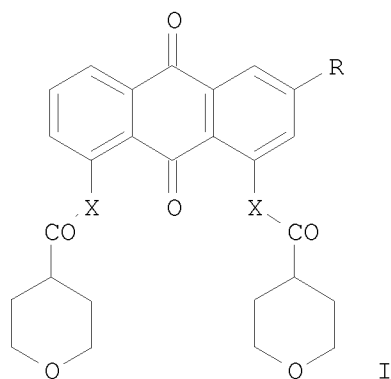
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L2 2 L1

=> d l2 ibib abs 1-2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:175514 CAPLUS
DOCUMENT NUMBER: 146:251663
TITLE: Preparation of dihydroxyanthraquinones for therapeutic
use as anti-inflammatory agents
INVENTOR(S): Baxter, Andrew Douglas; Walmsley, Andrea
PATENT ASSIGNEE(S): Sosei R & D Ltd., UK
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007017695	A2	20070215	WO 2006-GB2999	20060810
WO 2007017695	A3	20070518		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2006277794	A1	20070215	AU 2006-277794	20060810
CA 2618069	A1	20070215	CA 2006-2618069	20060810
EP 1912964	A2	20080423	EP 2006-779122	20060810
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2009504625	T	20090205	JP 2008-525642	20060810
IN 2008DN00958	A	20080314	IN 2008-DN958	20080204
MX 2008001956	A	20080407	MX 2008-1956	20080208
NO 2008000710	A	20080425	NO 2008-710	20080208
KR 2008043800	A	20080519	KR 2008-704920	20080228
CN 101296916	A	20081029	CN 2006-80033058	20080310
US 20080234258	A1	20080925	US 2008-997660	20080520
PRIORITY APPLN. INFO.:			GB 2005-16469	A 20050810
			WO 2006-GB2999	W 20060810
OTHER SOURCE(S):	CASREACT 146:251663; MARPAT 146:251663			
GI				



AB Rhein related dihydroxyanthraquinones, such as I [R = morpholin-4-ylcarbonyl, NH₄Et, CO₂H, CO₂Et, CO₂(CH₂)₂OMe, X = O; R = CN, tetrazol-5-yl, X = CH₂], were prepared for use in pharmaceutical compns. useful in the treatment of inflammatory and autoimmune diseases and conditions associated with T-cell proliferation or that are mediated by pro-inflammatory cytokines, particularly IL-1 β or IL-18. These autoimmune and inflammatory diseases and conditions may include chronic degenerative disease, such as rheumatoid arthritis, osteoarthritis or osteoporosis, chronic demyelinating disease, such as multiple sclerosis, respiratory disease, such as asthma or chronic obstructive pulmonary disease (COPD), inflammatory bowel disease (IBD) such as ulcerative colitis or Crohn's disease, dermatol. conditions, such as psoriasis, scleroderma or atopic dermatitis, dental diseases, such as periodontal disease or gingivitis, diabetic nephropathy, lupus nephritis, IgA nephropathy, glomerulonephritis, systemic lupus erythematosus (SLE), graft vs. host disease, cancer, diabetic retinopathy, age-related macular degeneration, and conditions characterized by angiogenesis. Thus, dihydroxyanthraquinone I (R = morpholin-4-ylcarbonyl, X = O) was prepared via an amidation reaction with 87% yield of the corresponding carboxylic acid I (R = CO₂H, X = O) with morpholine using EDCI and HOBt in CH₂Cl₂. The prepared compds. were assayed for their effect on serum TNF α and IL-10 levels using the LPS mouse assay, and they were assayed for anti-inflammatory using the Carrageenan paw edema assay in rats.

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1004687 CAPLUS

DOCUMENT NUMBER: 143:306044

TITLE: Preparation of ester derivatives of rhein as anti-inflammatory agents

INVENTOR(S): Baxter, Andrew Douglas; Walmsley, Andrea

PATENT ASSIGNEE(S): Arakis Ltd., UK

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085170	A1	20050915	WO 2005-GB832	20050304
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,				

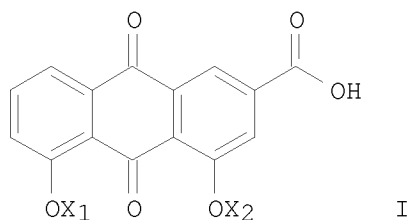
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

AU 2005219642	A1	20050915	AU 2005-219642	20050304
AU 2005219642	B2	20090423		
CA 2558082	A1	20050915	CA 2005-2558082	20050304
EP 1723097	A1	20061122	EP 2005-726943	20050304
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1938258	A	20070328	CN 2005-80009964	20050304
BR 2005008352	A	20070731	BR 2005-8352	20050304
JP 2007526293	T	20070913	JP 2007-501352	20050304
ZA 2006007386	A	20080528	ZA 2006-7386	20050304
IN 2006DN04999	A	20070817	IN 2006-DN4999	20060830
MX 2006010058	A	20070510	MX 2006-10058	20060904
NO 2006004031	A	20060915	NO 2006-4031	20060907
KR 2007010142	A	20070122	KR 2006-720192	20060928
US 20070185036	A1	20070809	US 2006-591157	20061006

PRIORITY APPLN. INFO.:

GB 2004-4953	A	20040304
WO 2005-GB832	W	20050304

OTHER SOURCE(S): CASREACT 143:306044; MARPAT 143:306044
 GI



AB The title rhein ester derivs. I (X1 = H, COR1; X2 = COR2; X1 ≠ X2 = H; R1, R2 = C1-C4 alkyl, 4 to 7-membered ring) are prepared and evaluated for their anti-inflammatory activity. For example, diacerein was hydrolyzed to the corresponding dihydroxy compound which was acylated with tetrahydro-4-pyranyl chloride to give the 4,5-bis(tetrahydropyran-4-carbonyl)oxy compound, I (X1 = X2 = COR, R = 4-tetrahydropyranyl).

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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information
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information
NEWS 7 APR 28 CAS patent authority coverage expanded
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NEWS 9 APR 28 Limits doubled for structure searching in CAS
REGISTRY
NEWS 10 MAY 08 STN Express, Version 8.4, now available
NEWS 11 MAY 11 STN on the Web enhanced
NEWS 12 MAY 11 BEILSTEIN substance information now available on
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NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
limits for exact sequence match searches and
introduction of free HIT display format
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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=> file registry

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DICTIONARY FILE UPDATES: 15 JUN 2009 HIGHEST RN 1158168-92-3

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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> e dibenzoylrhein

E1	5	DIBENZOYLRESORCIN/BI
E2	5	DIBENZOYLRESORCINOL/BI
E3	1 -->	DIBENZOYL RHEIN/BI
E4	1	DIBENZOYL RUTHEN/BI
E5	1	DIBENZOYL RUTHENOC/BI
E6	1	DIBENZOYL RUTHENOCENE/BI
E7	1	DIBENZOYLS/BI
E8	1	DIBENZOYLSECO/BI
E9	1	DIBENZOYLSECOVERACINTINE/BI
E10	2	DIBENZOYLSELENO/BI
E11	8	DIBENZOYLSELENOPHENE/BI
E12	1	DIBENZOYLSELENOTOLUENE/BI

=> s e3

L1 1 DIBENZOYL RHEIN/BI

=> d e3

'E3' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

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REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SQIDE	- IDE, plus sequence data
SQIDE3	- Same as SQIDE, but 3-letter amino acid codes are used
SQD	- Protein sequence data, includes RN
SQD3	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
EPROP	- Table of experimental properties
PPROP	- Table of predicted properties
PROP	- EPROP, ETAG, PPROP and SPEC

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ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

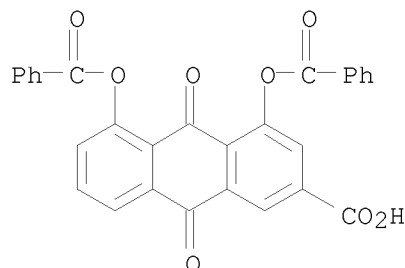
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=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 81686-01-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Anthracenecarboxylic acid, 4,5-bis(benzoyloxy)-9,10-dihydro-9,10-dioxo-
(CA INDEX NAME)
OTHER NAMES:
CN 1,8-Dibenzoyloxy-3-carboxyanthraquinone
CN 4,5-Dibenzoylrhein
CN Dibenzoylrhein
MF C29 H16 O8
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, EMBASE, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.88	8.10

FULL ESTIMATED COST

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FILE LAST UPDATED: 16 Jun 2009 (20090616/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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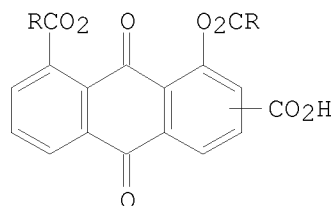
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1
L2 4 L1

=> d l2 ibib abs 1-4

L2 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1984:144991 CAPLUS
DOCUMENT NUMBER: 100:144991
ORIGINAL REFERENCE NO.: 100:22063a,22066a
TITLE: Pharmaceuticals containing carboxyanthraquinone derivatives for sclerosis treatment
PATENT ASSIGNEE(S): Proter S.p.A., Italy
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58225015	A	19831227	JP 1983-29594	19830225
JP 02060647	B	19901217		
PRIORITY APPLN. INFO.: GI			JP 1983-29594	19830225



I

AB Pharmaceuticals for the treatment of sclerosis, especially multiple sclerosis and amyotrophic lateral sclerosis contain the anthraquinone derivs. (I) (R = lower alkyl or phenyl). Thus, 1,8-dihydroxy-3-carboxyanthraquinone [478-43-3] was treated with Ac₂O to give 1,8-diacetoxy-3-carboxyanthraquinone (II) [13739-02-1]. Capsules were prepared containing II (250 g) lactose (5 kg) and Mg stearate (50 g). Each capsule contained 25 mg II.

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

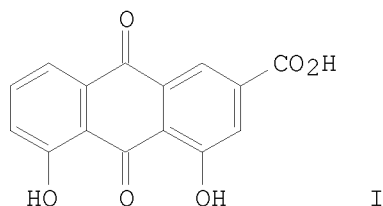
ACCESSION NUMBER: 1983:535997 CAPLUS
DOCUMENT NUMBER: 99:135997
ORIGINAL REFERENCE NO.: 99:20849a,20852a
TITLE: Catalytic properties of serum albumin
AUTHOR(S): Ignesti, G.; Banchelli, M. G.; Pirisino, R.; Raimondi, L.; Buffoni, F.
CORPORATE SOURCE: Dep. Pharmacol., Univ. Florence, Florence, Italy
SOURCE: Pharmacological Research Communications (1983), 15(6), 569-79
CODEN: PLRCAT; ISSN: 0031-6989
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Human blood plasma was able to catalyze the reaction between tert-Bu hydroperoxide and 2-nitro-5-mercaptobenzoic acid. The purification of a protein fraction responsible for this activity indicated it was due to blood plasma albumin; this was also demonstrated using various purified com. albumins. The V_{max} and the K_m of the reaction and the effect of some substances of pharmacol. or physiol. importance on the same reaction were determined. Some antiinflammatory nonsteroidal drugs showed an inhibitory effect on the phenomenon, similar to that of endogenous substances, such as fatty acids, bilirubin, and arachidonic acid. The ability of other physiol. substances, such as cytochrome c, Hb, and hemin, to catalyze the same reaction was also observed.

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1982:193416 CAPLUS
DOCUMENT NUMBER: 96:193416
ORIGINAL REFERENCE NO.: 96:31749a,31752a
TITLE: Rhein and derivatives. In vitro studies on their capacity to inhibit certain proteases
AUTHOR(S): Raimondi, L.; Banchelli Soldaini, G.; Buffoni, F.; Ignesti, G.; Massacesi, L.; Amaducci, L.; Friedmann, C. A.
CORPORATE SOURCE: Dep. Pharmacol. Toxicol., Univ. Florence, Florence,

Italy
 SOURCE: Pharmacological Research Communications (1982), 14(2),
 103-12
 CODEN: PLRCAT; ISSN: 0031-6989
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB rhein (I) [478-43-3], 4,5-diacetylrhein [13739-02-1],
 4,5-dipropionylrhein [81686-02-4] and 4,5-dibenzoylrhein [
 81686-01-3] were studied in vitro against certain types of
 protease [9001-92-7] (pepsin [9001-75-6], trypsin [9002-07-7],
 carboxypeptidase A [11075-17-5], elastase [9004-06-2]) and compared to
 8-aminocaproic acid and to aprotinin. Rhein and its derivs. inhibit the
 protease in the range of 10⁻⁴-10⁻⁵M concns. The relation of these results
 to the pharmacol. of the rhein derivs. is discussed.

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1912:461 CAPLUS
 DOCUMENT NUMBER: 6:461
 ORIGINAL REFERENCE NO.: 6:79g-i,80a-d
 TITLE: Chrysophanic Acid, Frangula Emodin and some Oxonlum,
 Compaunda of Anthracene Derivatives. IX
 AUTHOR(S): Fischer, O.; Gross, H.
 CORPORATE SOURCE: Chem. Lab., Univ. Erlangen
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1912), 84,
 369-82
 CODEN: JPCEAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB cf. C. A., 5, 2649 In the prepare of chrysophanic acid from chrysarobin,
 the demethylation of the com. product by HI need not be carried out under
 pressure; it is much more easily effected by passing an excess of gaseous
 HI through a b. glacial AcOH solution of the substance. Another method of
 prepare consists in oxidizing the crude chrysarobin and separating the mixture
 of

chrysophanic add and methylemodin either by demethylating with cone. HCl
 in glacial AcOH under, pressure and treating with Na₂CO₃, or by completely
 methylating with Me₂SO₄ and crystallizing from AcOEt.
 Dibenzoylchrysophanic acid, from chrysophanic acid in pyridine and BZCl,
 m. 212°, is oxidized by CrO₃ in glacial AcOH and Ac₂O to
 dibenzoylrhein, yellow prisms grouped in Stars, m. 253-5°, which is
 hydrolyzed by alc. KOH to rhein, m. 321°. Heated on the H₂O bath
 3-5 hrs. with 15 pts. NH₂ under 50 mm, chrysophanic acid yields a compound
 C₁₃H₁₁O₃N, spherical clusters of needles, assuming a bronze luster on
 drying, soluble with reddish violet color in alks. and NH₂ with orange color
 in conc. H₂SO₄ and gradually passing back into chrysophanic acid when b.
 with 20% NaOH. The compound must therefore be an imide, as originally
 assumed by Lieberman and Fischer, and not an amino compound (Oesterle and
 Johann, C. A., 5, 481). Triacetyl. eraodin is oxidized by CrO₂ in glacial
 AcOH and Ac₂O to triacetylemodinic acid, C₂₁H₁₄O₁₀, needles, grouped in

stars; alkaline KOH hydrolyzes it to emodinic acid (trihydroxy- β -anthraquinonecarboxylic acid), orange-yellow needles, evolves red vapors 340-50° decamp. completely 360°, easily soluble in alks. with reddish violet color, in cone. H₂SO₄ with yellowish eosin color, forms a violet lack with Ba(OH)₂, very stable, being practically unchanged by heating at 190° with cone. HCl and glacial AcOH. Neither anthracene, methyl- or chloroanthracenes, anthraquinone, the 2 methylanthraquinones, dimethyl- or diethylhydroanthraquinones gave oxonium salts with concentrate HBr or (6-70% HClO₄; hydroxyanthraquinones form yellowish red to red solns. but even rufigallic acid yielded no salt which could be isolated. The Me and Et ethers of hydroxyanthraquinones, however, did give such salts under certain conditions. Hexamethylrufigaltic acid, C₂₀H₂₀O₈, from the K salt and Me₂SO₄ at 120°, light yellow needles, m. 240°. Trimethylemodin in CHCl₃ gives with dry HBr the oxonium salt C₁₈H₁₇O₈Br, red precipitate, loses HBr overnight in a desiccator. The zinc bromide double salt, C₁₈H₁₇O₈-Br₃Zn, red crystals, is somewhat more stable. Perchlorate, C₁₈H₁₇O₈Cl, scarlet-red crystalline powder. Dimethylchrysophanic acid bromide, scarlet flocks, stable only under the liquid from which it is precipitated; zinc bromide salt, C₁₇H₁₈O₄Br₃Zn, cinnabar-red flocks. 1,8-Dimethoxyanthraquinone bromide, scarlet flocks; zinc bromide salt, C₁₆H₁₈O₄Br₃Zn. The corresponding chlorides and ZnCl₂ salts can be similarly prepared, but they are even more unstable than the bromides.

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
13.00	21.10

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.28	-3.28

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